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| | Application No. | Applicant(s) | |
| Notice of Allowability | 10/038,073 Examiner | LANIER ET AL. Art Unit | T |
| | Thomas R Artman | 2882 | |
| The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI | (OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subje | application. If not inclu tion will be mailed in du | ded e course. THIS |
| 1. This communication is responsive to 17 March 2004. | | | |
| 2. X The allowed claim(s) is/are 1-3,6-11,13-23,25-34,36-44 and | <u>d 69-80</u> . | | |
| 3. \boxtimes The drawings filed on <u>04 January 2002</u> are accepted by the | e Examiner. | | |
| 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying Indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the deponant of t | e been received. been received in Application Noteuments have been received in the communication to file a realizable. of this communication to file a realizable. itted. Note the attached EXAMIN as reason(s) why the oath or deceived by the submitted. son's Patent Drawing Review (Parameters of the submitted). s Amendment / Comment or in the drawing state of BIOLOGICAL MATERIA. | his national stage application is deficient. TO-948) attached the Office action of awings in the front (not the I21(d). AL must be submitted | requirements NOTICE OF |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date | 6. ☐ Interview Summ Paper No./Mail 08), 7. ☐ Examiner's Ame | Date | · |

DETAILED ACTION

Allowable Subject Matter

Claims 1-3, 6-11, 13-23, 25-34, 36-44 and 69-80 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art of record neither teaches nor reasonably suggests a fiber optic cable with a jacket that is formed from a material having a Shore A hardness of about 95 or less and having an average shrinkage of about 1% or less as required by the combination of claim 1.

Claims 2, 3, 5-11 and 13-22 are allowed by virtue of their dependency.

The prior art of record neither teaches nor reasonably suggests a fiber optic cable with a jacket that is formed from a material having an ultimate ASTM D-412 elongation in the range of about 350% to 700% and having an average shrinkage of about 2% or less measured about 1 hour after the test is conducted at 110 Centigrade for two hours with the cable core removed as required by the combination of claim 23.

Claims 25-33 are allowed by virtue of their dependency.

The prior art of record neither teaches nor reasonably suggests a fiber optic cable with a jacket that is formed from a material having a flexural modulus of 10,000 psi or less using ASTM D-790 and having an average shrinkage of about 2% or less measured about 1 hour after

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the test is conducted at 110 Centigrade for two hours with the cable core removed as required by the combination of claim 34.

Claims 36-44 are allowed by virtue of their dependency.

The prior art of record neither teaches nor reasonably suggests a fiber optic cable having a separation layer and a jacket that is also a part of an interconnect cable assembly that includes an optical connector, where the average delta insertion loss is about 0.03 dB or less at a reference wavelength of 1310 nm, 1550 nm or 1625 nm during a thermal cycle between a minimum temperature of -40 Centigrade and a maximum of 85 Centigrade as required by the combination of claim 69.

Claims 70-80 are allowed by virtue of their dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Cooper (US 4,881,795) discloses an optical fiber cable with a similar average delta insertion loss; however, there isn't any connector disclosed that is part of the cable assembly during the test.

Kannabiran (US 5,201,020) discloses an optical fiber with a similar average delta insertion loss; however, no jacket or separation layer is present during the test and no connector is disclosed.

Jamet (US 6,334,015) discloses an optical fiber cable with a similar average delta insertion loss; however, there isn't any separation layer or connector disclosed.

Melton (US 6,690,867) discloses an optical fiber cable assembly with a jacket, separation layer and connector; however, the average delta insertion losses are higher than claimed.

Commonly-owned Lanier (US 2003/0174989) and Register, III, (US 2003/0185529) teach similar cable structures with similar average delta insertion losses.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas R Artman whose telephone number is (571) 272-2485.

The examiner can normally be reached on 9am - 6:30pm Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas R. Artman Patent Examiner April 12, 2004

SUPERVISORY PATENT EXAMINER